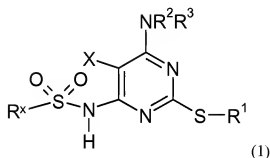


Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Previously Presented) A compound of formula (1) or a pharmaceutically acceptable salt thereof:



wherein R^1 is a group selected from C_{3-7} carbocyclyl, C_{1-8} alkyl, C_{2-6} alkenyl and C_{2-6} alkynyl; wherein the group is optionally substituted by 1, 2 or 3 substituents independently selected from fluoro, nitrile, $-\text{OR}^4$, $-\text{NR}^5\text{R}^6$, $-\text{CONR}^5\text{R}^6$, $-\text{COOR}^7$, $-\text{NR}^8\text{COR}^9$, $-\text{SR}^{10}$, $-\text{SO}_2\text{R}^{10}$, $-\text{SO}_2\text{NR}^5\text{R}^6$, $-\text{NR}^8\text{SO}_2\text{R}^9$, phenyl or heteroaryl; wherein phenyl and heteroaryl are optionally substituted by 1, 2 or 3 substituents independently selected from halo, cyano, nitro, $-\text{OR}^4$, $-\text{NR}^5\text{R}^6$, $-\text{CONR}^5\text{R}^6$, $-\text{COOR}^7$, $-\text{NR}^8\text{COR}^9$, $-\text{SR}^{10}$, $-\text{SO}_2\text{R}^{10}$, $-\text{SO}_2\text{NR}^5\text{R}^6$, $-\text{NR}^8\text{SO}_2\text{R}^9$, C_{1-6} alkyl and trifluoromethyl;

wherein R^2 is C_{3-7} carbocyclyl, optionally substituted by 1, 2 or 3 substituents independently selected from:

(a) fluoro, $-\text{OR}^4$, $-\text{NR}^5\text{R}^6$, $-\text{CONR}^5\text{R}^6$, $-\text{COOR}^7$, $-\text{NR}^8\text{COR}^9$, $-\text{SR}^{10}$, $-\text{SO}_2\text{R}^{10}$, $-\text{SO}_2\text{NR}^5\text{R}^6$, $-\text{NR}^8\text{SO}_2\text{R}^9$;

- (b) a 3-8 membered ring optionally containing 1, 2 or 3 atoms selected from O, S, -NR⁸ and whereby the ring is optionally substituted by C₁₋₃alkyl or fluoro; or
- (c) phenyl or heteroaryl, each of which is optionally substituted by 1, 2 or 3 substituents independently selected from halo, cyano, nitro, -OR⁴, -NR⁵R⁶, -CONR⁵R⁶, -NR⁸COR⁹, -SO₂NR⁵R⁶, -NR⁸SO₂R⁹, C₁₋₆alkyl and trifluoromethyl;

or R² is a group selected from C₁₋₈alkyl, C₂₋₆alkenyl or C₂₋₆alkynyl wherein the group is substituted by 1, 2 or 3 substituents independently selected from hydroxy, amino, C₁₋₆alkoxy, C₁₋₆alkylamino, di(C₁₋₆alkyl)amino, *N*-(C₁₋₆alkyl)-*N*-(phenyl)amino, *N*-C₁₋₆alkylcarbamoyl, *N,N*-di(C₁₋₆alkyl)carbamoyl, *N*-(C₁₋₆alkyl)-*N*-(phenyl)carbamoyl, carboxy, phenoxycarbonyl, -NR⁸COR⁹, -SO₂R¹⁰, -SO₂NR⁵R⁶ and -NR⁸SO₂R⁹;

wherein R³ is hydrogen or independently R²;

R⁴ is hydrogen or a group selected from C₁₋₆alkyl and phenyl, wherein the group is optionally substituted by 1 or 2 substituents independently selected from halo, phenyl, -OR¹¹ and -NR¹²R¹³;

R⁵ and R⁶ are independently hydrogen or a group selected from C₁₋₆alkyl and phenyl wherein the group is optionally substituted by 1, 2 or 3 substituents independently selected from halo, phenyl, -OR¹⁴, -NR¹⁵R¹⁶, -COOR¹⁴, -CONR¹⁵R¹⁶, -NR¹⁵COR¹⁶, -SO₂R¹⁰, -SONR¹⁵R¹⁶ and NR¹⁵SO₂R¹⁶ or

R⁵ and R⁶ together with the nitrogen atom to which they are attached form a 4- to 7-membered saturated heterocyclic ring system optionally containing a further heteroatom selected from oxygen and nitrogen atoms, which ring is optionally substituted by 1, 2 or 3 substituents independently selected from phenyl, -OR¹⁴, -COOR¹⁴, -NR¹⁵R¹⁶, -CONR¹⁵R¹⁶, -NR¹⁵COR¹⁶, -SO₂R¹⁰, -SONR¹⁵R¹⁶, NR¹⁵SO₂R¹⁶ or C₁₋₆alkyl (optionally substituted by 1 or 2 substituents independently selected from halo, -NR¹⁵R¹⁶ and -OR¹⁷ groups);

R¹⁰ is hydrogen or a group selected from C₁₋₆alkyl or phenyl, wherein the group is optionally substituted by 1, 2 or 3 substituents independently selected from halo, phenyl, -OR¹⁷ and -NR¹⁵R¹⁶; and

each of R⁷, R⁸, R⁹, R¹¹, R¹², R¹³, R¹⁴, R¹⁵, R¹⁶, R¹⁷ is independently hydrogen, C₁₋₆alkyl or phenyl;

X is hydrogen, halo, cyano, nitro, hydroxy, C₁₋₆alkoxy (optionally substituted by 1 or 2 substituents selected from halo, -OR¹¹ and -NR¹²R¹³), -NR⁵R⁶, -COOR⁷, -NR⁸COR⁹, thio, C₁₋₆alkylthio (optionally substituted by 1 or 2 substituents selected from halo, -OR¹⁷, -NR¹⁵R¹⁶), -SO₂R¹⁰ or a group selected from C₃₋₇carbocyclyl, C₁₋₈alkyl, C₂₋₆alkenyl or C₂₋₆alkynyl, wherein the group is optionally substituted by 1, 2 or 3 substituents independently selected from halo, -OR⁴, -NR⁵R⁶, -CONR⁵R⁶, -COOR⁷, -NR⁸COR⁹, -SR¹⁰, -SO₂R¹⁰, -SO₂NR⁵R⁶ and -NR⁸SO₂R⁹;

R^x is trifluoromethyl, -NR⁵R⁶, phenyl, naphthyl, monocyclic or bicyclic heteroaryl wherein a heteroring may be partially or fully saturated and one or more ring carbon atoms may form a carbonyl group, and wherein each phenyl or heteroaryl group is optionally substituted by 1, 2 or 3 substituents independently selected from halo, cyano, nitro, -OR⁴, -NR⁵R⁶, -CONR⁵R⁶, -COR⁷, -COOR⁷, -NR⁸COR⁹, -SR¹⁰, -SO₂R¹⁰, -SO₂NR⁵R⁶, -NR⁸SO₂R⁹, C₁₋₆alkyl or trifluoromethyl; or R^x is a group selected from C₃₋₇carbocyclyl, C₁₋₈alkyl, C₂₋₆alkenyl and C₂₋₆alkynyl whereby the group is optionally substituted by 1, 2 or 3 substituents independently selected from halo, -OR⁴, -NR⁵R⁶, -CONR⁵R⁶, -COR⁷, -COOR⁷, -NR⁸COR⁹, -SR¹⁰, -SO₂R¹⁰, -SO₂NR⁵R⁶, -NR⁸SO₂R⁹, phenyl or heteroaryl; and wherein each phenyl or heteroaryl group is optionally substituted by 1, 2 or 3 substituents independently selected from halo, cyano, nitro, -OR⁴, -NR⁵R⁶, -CONR⁵R⁶, -COR⁷, -COOR⁷, -NR⁸COR⁹, -SR¹⁰, -SO₂R¹⁰, -SO₂NR⁵R⁶, -NR⁸SO₂R⁹, C₁₋₆alkyl or trifluoromethyl;

or R^x and X together form a 4 to 8-membered sulfonamide ring optionally substituted by 1, 2 or 3 substituents independently selected from halo, -OR⁴, -NR⁵R⁶, -CONR⁵R⁶, -COOR⁷, -NR⁸COR⁹, -SR¹⁰, -SO₂R¹⁰, -SO₂NR⁵R⁶, -NR⁸SO₂R⁹, phenyl or heteroaryl; wherein phenyl and

heteroaryl are optionally substituted by 1, 2 or 3 substituents independently selected from halo, cyano, nitro, -OR⁴, -NR⁵R⁶, -CONR⁵R⁶, -COOR⁷, -NR⁸COR⁹, -SR¹⁰, -SO₂R¹⁰, -SO₂NR⁵R⁶, -NR⁸SO₂R⁹, C₁₋₆alkyl and trifluoromethyl.

2. (Previously Presented) A compound or a pharmaceutically acceptable salt thereof according to claim 1 wherein R² is C₁₋₈alkyl substituted by 1 or 2 hydroxy substituents.

3. (Previously Presented) A compound or a pharmaceutically acceptable salt thereof according to claim 1 wherein R¹ is benzyl optionally substituted by 1, 2 or 3 substituents independently selected from fluoro, chloro, bromo, methoxy, methyl and trifluoromethyl.

4. (Previously Presented) A compound or a pharmaceutically acceptable salt thereof according to claim 1 wherein R³ is hydrogen.

5. (Previously Presented) A compound or a pharmaceutically acceptable salt thereof according to claim 1 wherein X is hydrogen.

6. (Previously Presented) A compound or a pharmaceutically acceptable salt thereof according to claim 1 wherein R^x is methyl, 1-methylimidazolyl, 1,2-dimethylimidazolyl, *N,N*-dimethylamino, azetidiny, pyrrolidiny, morpholiny and piperidiny.

7. (Previously Presented) A compound that is *N*-(2-[(3-Chloro-2-fluorobenzyl)thio]-6-[[*(1R)*-2-hydroxy-1-methylethyl]amino]-pyrimidin-4-yl)methanesulfonamide or a pharmaceutically acceptable salt thereof.

Claims 8-13 (Cancelled)

14. (Previously Presented) A pharmaceutical composition comprising a compound or a pharmaceutically acceptable salt thereof according to claim 1; and a pharmaceutically-acceptable diluent or carrier.

Claims 15-18 (Cancelled).

19. (Previously Presented) A pharmaceutical composition which comprises a compound of formula (1) as defined in claim 1 or a pharmaceutically acceptable salt thereof, in conjunction with another pharmaceutical agent.

20. (Previously presented) A pharmaceutical composition as claimed in claim 19 wherein the amount of the compound in the composition is effective for treating asthma, allergic rhinitis, COPD, inflammatory bowel disease, irritable bowel syndrome, osteoarthritis, osteoporosis, rheumatoid arthritis, or psoriasis.

21. (Cancelled)

22. (Previously Presented) A compound that is *N*-[2-[(3-Chloro-2-fluorobenzyl)thio]-6-[(2-hydroxy-1-methylethyl)amino]-4-pyrimidinyl]-4-morpholinesulfonamide or a pharmaceutically acceptable salt thereof.

23. (Previously Presented) A compound that is *N*-[2-[[[(3-Chloro-2-fluorophenyl)methyl]thio]-6-[(2-hydroxy-1-methylethyl)amino]-4-pyrimidinyl]-1,2-dimethyl-1*H*-imidazole-4-sulfonamide or a pharmaceutically acceptable salt thereof.

24. (Previously Presented) A compound that is *N*-(2-[(2,3-Difluorobenzyl)thio]-6-[[[(1*R*)-2-hydroxy-1-methylethyl]amino]pyrimidin-4-yl]piperidine-1-sulfonamide or a pharmaceutically acceptable salt thereof.

25. (Previously Presented) A compound that is *N*-(2-[(2,3-Difluorobenzyl)thio]-6-{[(1*R*)-2-hydroxy-1-methylethyl]amino}pyrimidin-4-yl)pyrrolidine-1-sulfonamide or a pharmaceutically acceptable salt thereof.
26. (Previously Presented) A compound that is *N*-(2-[(2,3-Difluorobenzyl)thio]-6-{[(1*R*)-2-hydroxy-1-methylethyl]amino}pyrimidin-4-yl)azetidine-1-sulfonamide or a pharmaceutically acceptable salt thereof.
27. (Previously Presented) A compound that is *N*-{6-{[(1*R*)-2-Hydroxy-1-methylethyl]amino}-2-[(2,3,4-trifluorobenzyl)thio]-pyrimidin-4-yl)morpholine-4-sulfonamide or a pharmaceutically acceptable salt thereof.
28. (Previously Presented) A compound that is *N*-(2-[(2,3-Difluorobenzyl)thio]-6-{[(1*R*)-2-hydroxy-1-methylethyl]amino}pyrimidin-4-yl)morpholine-4-sulfonamide or a pharmaceutically acceptable salt thereof.
29. (Previously Presented) A compound that is *N*-(2-[(3-Chloro-2-fluorobenzyl)thio]-6-{[(1*R*)-2-hydroxy-1-methylethyl]amino}-pyrimidin-4-yl)azetidine-1-sulfonamide or a pharmaceutically acceptable salt thereof.
30. (Previously Presented) A compound that is *N*-{6-{[(1*R*)-2-Hydroxy-1-methylethyl]amino}-2-[(2,3,4-trifluorobenzyl)thio]-pyrimidin-4-yl)azetidine-1-sulfonamide or a pharmaceutically acceptable salt thereof.
31. (Previously Presented) A compound that is *N*-(2-[(3-Chloro-2-fluorobenzyl)thio]-6-{[(1*R*)-2-hydroxy-1-methylethyl]amino}-pyrimidin-4-yl)-*N,N*-dimethylsulfamide or a pharmaceutically acceptable salt thereof.

32. (Previously Presented) A compound that is *N*-[2-[[[(3-Chloro-2-fluorophenyl)methyl]thio]-6-[(*R*)-(2-hydroxy-1-methylethyl)amino]-4-pyrimidinyl]-1-methyl-1H-imidazole-4-sulfonamide or a pharmaceutically acceptable salt thereof.